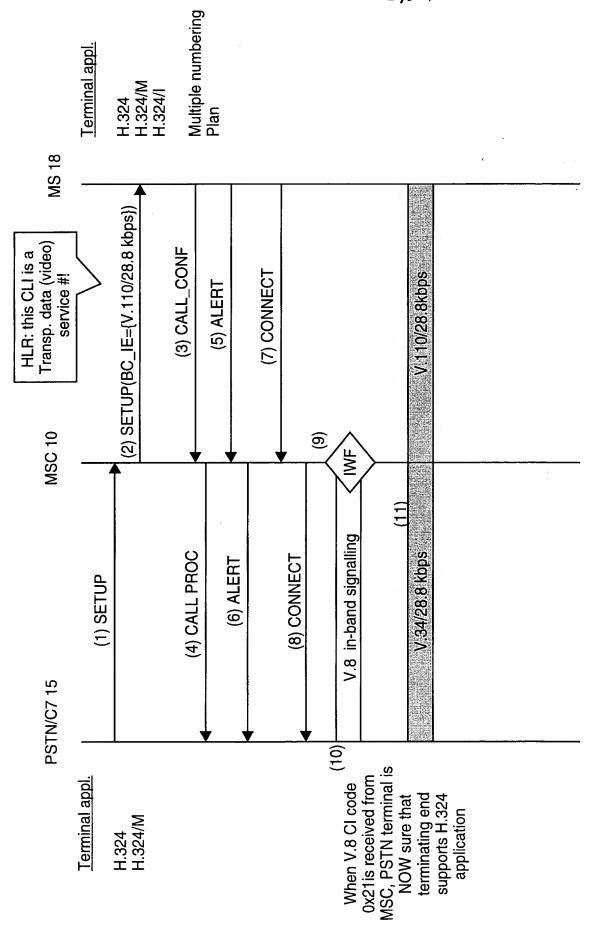


• .

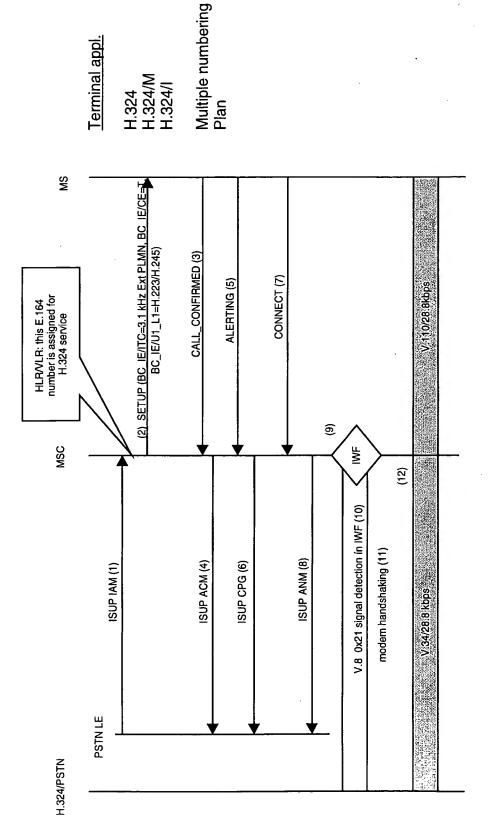
**FIGURE 2** 





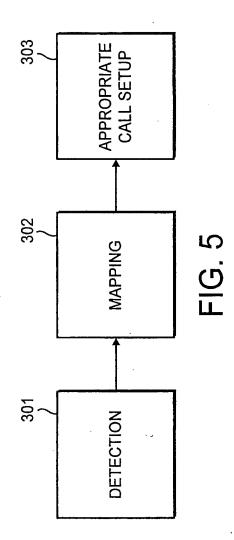
and the first of the first first of the first factor of the first factor factor for the factor facto

FIGURE 3



the plant of the property of t

**FIGURE 4** 



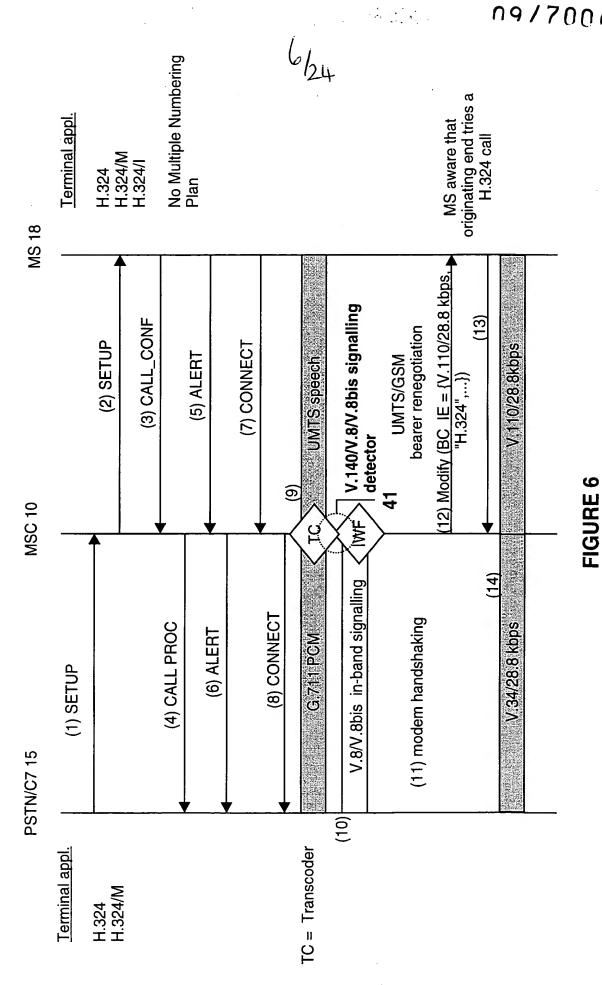


FIGURE 7

PSTN-MS direct call involvement,

#### No Multiple Numbering Plan 7/24 originating end tries a H.324 call Terminal appl. MS aware that H.324 H.324/M H.324/I SE (12) MODIFY (BC\_IE/ITC=3.1 kHz Ext PLMN, BC\_IE/CE=T BC\_IE/U1\_L1=H.223/H.245) TC = Transcoder (3) CALL CONFIRMED (BC IE1/ITC=speech, BC\_IE2/ITC=>UDI, BC\_IE2/ITC=>UDI, BC\_IE2/IN\_L1=H.223/H.245) (2) SETUP(BC\_IE/ITC=3.1 kHz Ext PLMN) UMTS/GSM bearer renegotiation (5) ALERTING (7) CONNECT single-numbering Scheme 6 MSC (14) (10) V.8/V.8bis in-band DTMF signalling (11) modem handshaking (4) ISUP ACM (1) ISUP IAM (6) ISUP CPG (8) ISUP ANM G:711 PCM H.324/PSTN 凹 Terminal appl. H.324 H.324/M

V:110/28:8kbps

(9) V.8 0x21 signal detection in IWF

(8) ISUP ANM

(10) modem handshaking

V.34/28.8 kbps

#### Single numbering Plan Terminal appl. H.324 H.324/M H.324/I (3) CALL\_CONFIRMED (BC\_IE/ITC=3.1 kHz Ext PLMN, BC\_IE/CE=T, BC\_IE/UT\_L1=H.223/H.245) (2) SETUP (BC\_IE=EMPTY) (5) ALERTING

(4) ISUP ACM

(6) ISUP CPG

SE

single-numbering Scheme

MSC

(1) ISUP IAM

**PSTN LE** 

H.324/PSTN

PSTN-MS direct call,

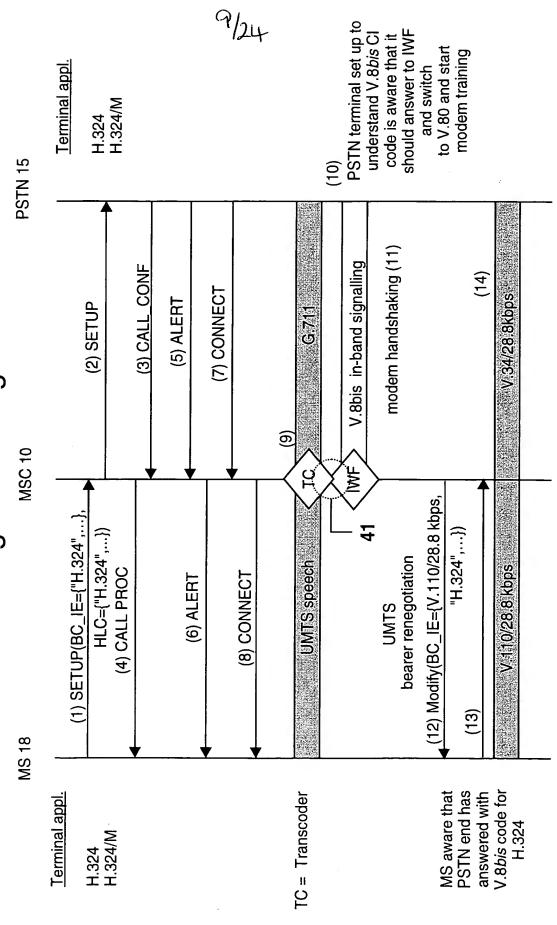
The first state of the second state of the sec

PSTN, MSC sure that originating end supports H.324 application 0x21is received from When V.8 CF code

FIGURE 8

FIGURE 9

### MS-PSTN Speech First, with Changeover Using V.8bis



# MS - PSTN direct call without V.8bis involvement

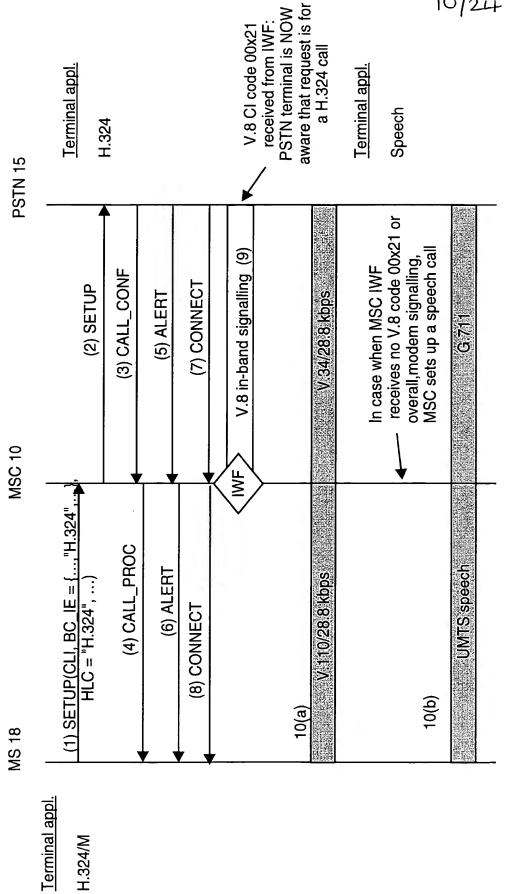


FIGURE 10

# MS - PSTN direct call without V.8bis involvement

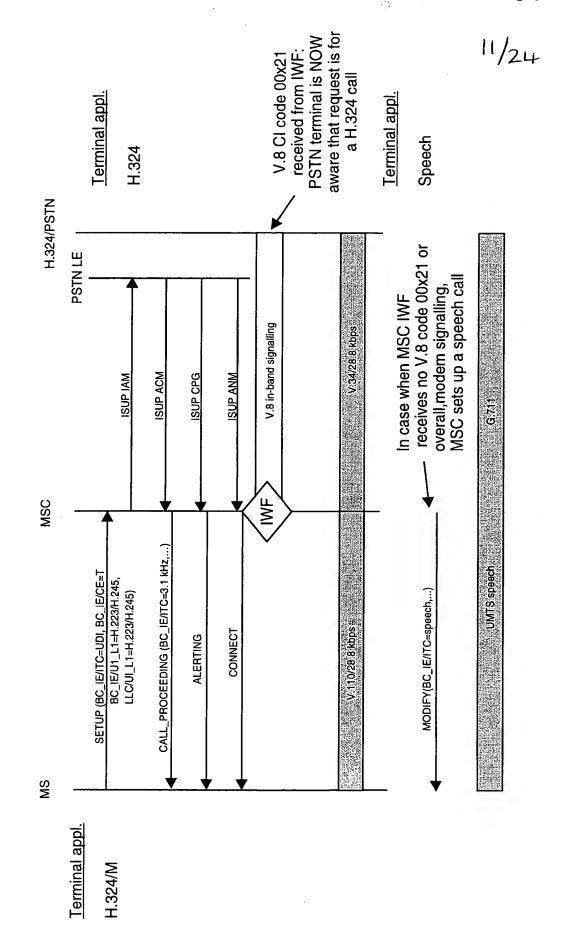
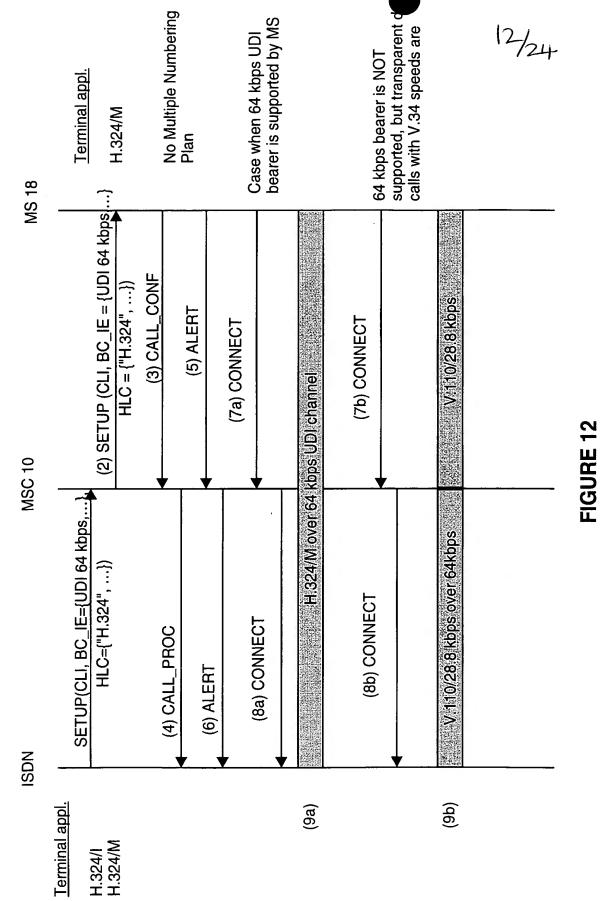
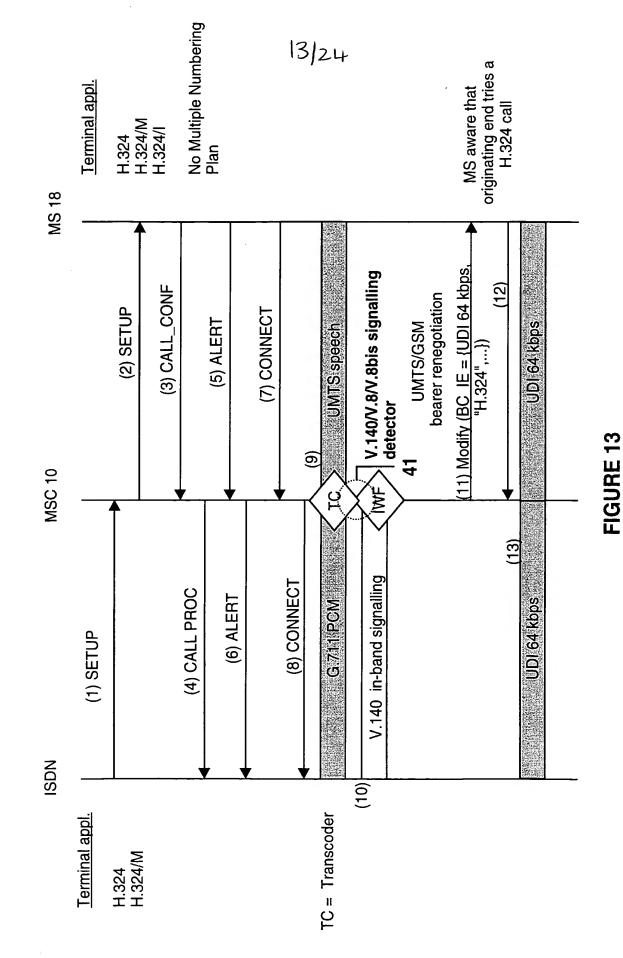


FIGURE 11

### ISDN - NMTS



# ISDN - UMTS without end-to-end HLC



#### **UMTS - ISDN**

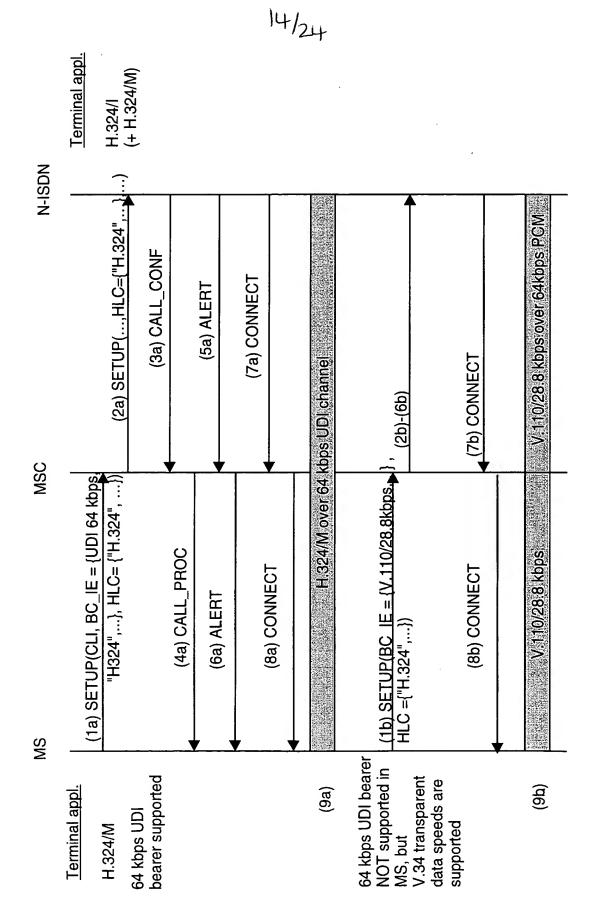
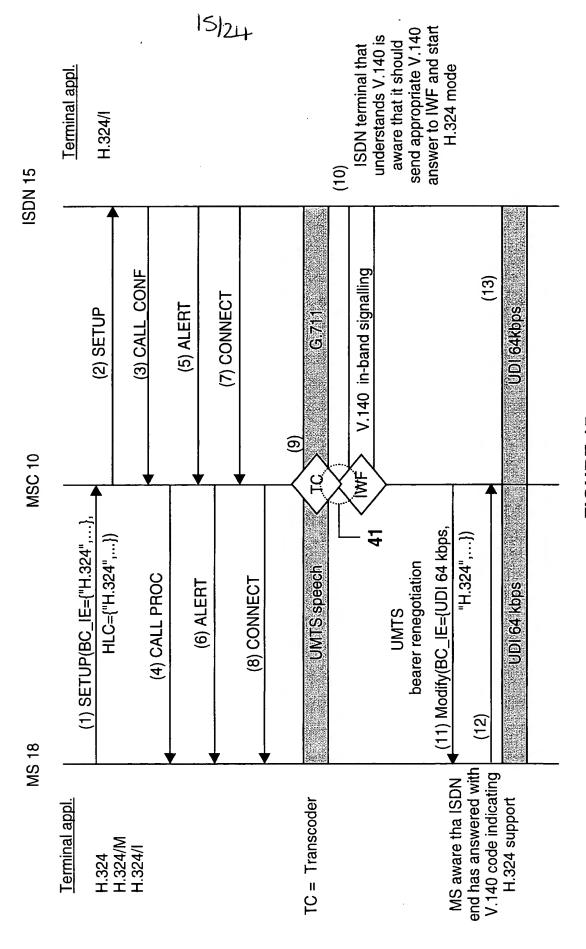


FIGURE 14

## UMTS - ISDN without end-to-end HLC



**FIGURE 15** 

### ISDN - NMTS

the first state of the first sta

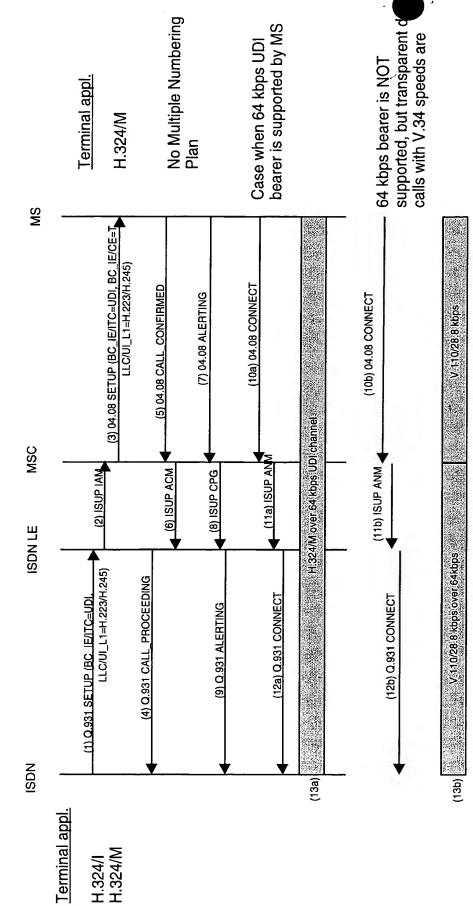
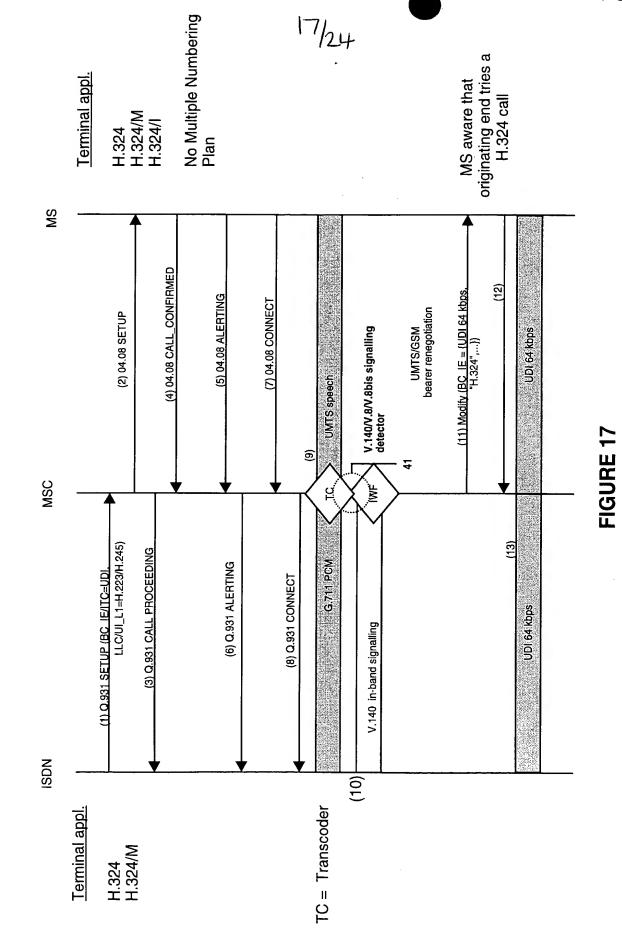


FIGURE 16

## ISDN - UMTS without end-to-end LLC



### **UMTS - ISDN**

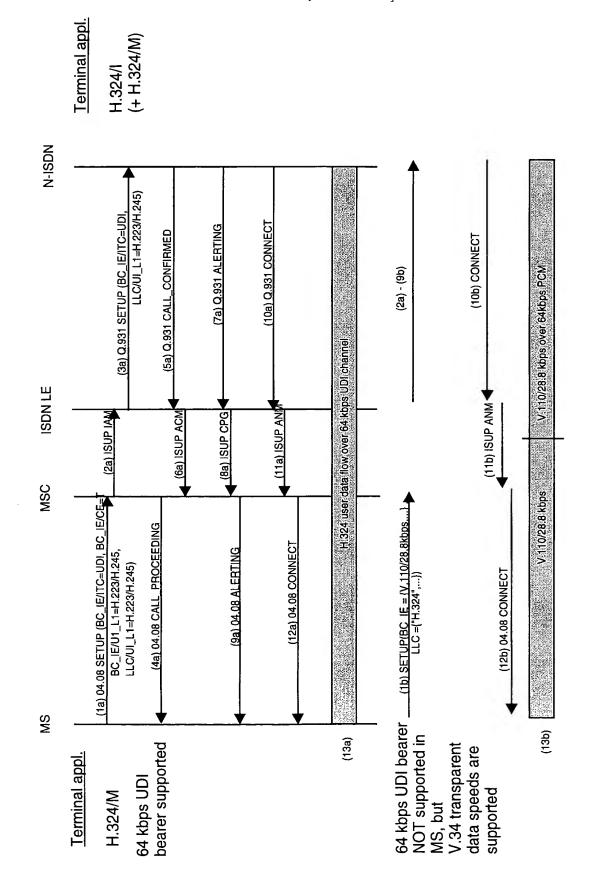


FIGURE 18

## UMTS - ISDN without end-to-end LLC

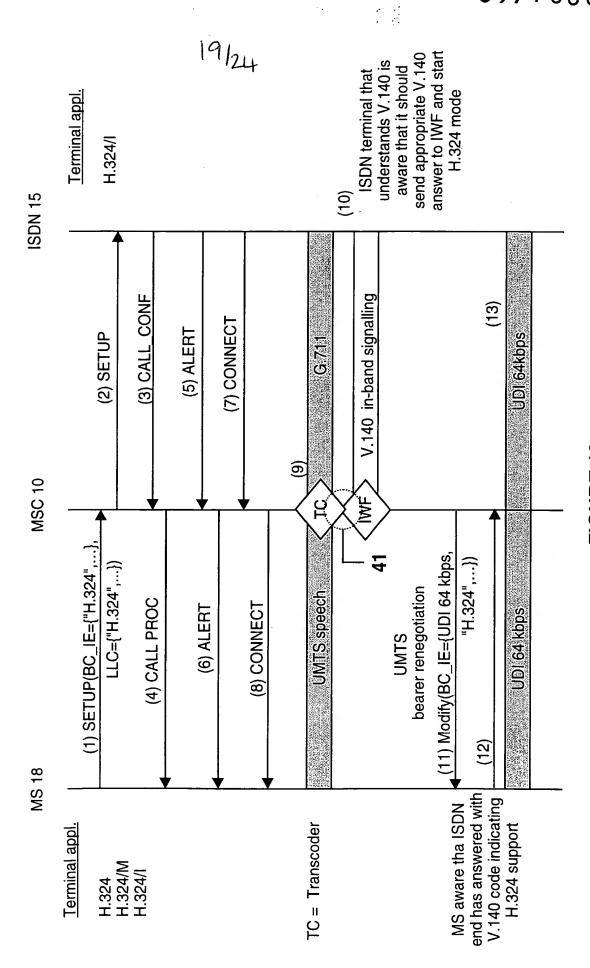


FIGURE 19

**UMTS - UMTS** 

20/24

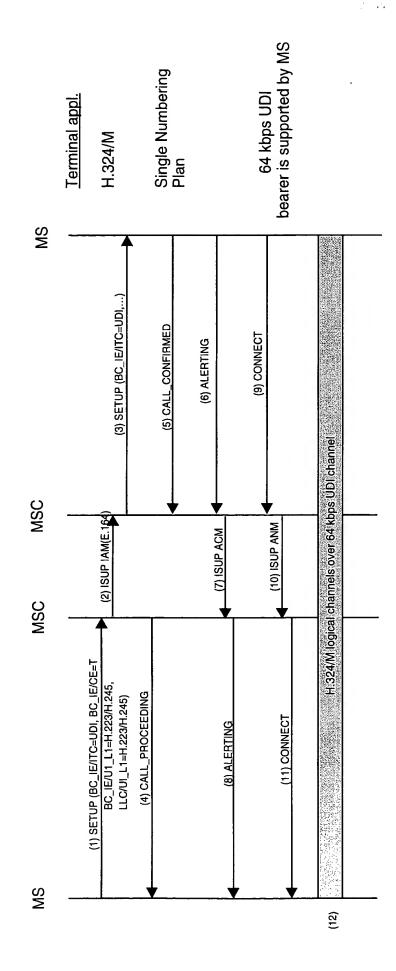


FIGURE 20

21/24

#### UMTS - 2G

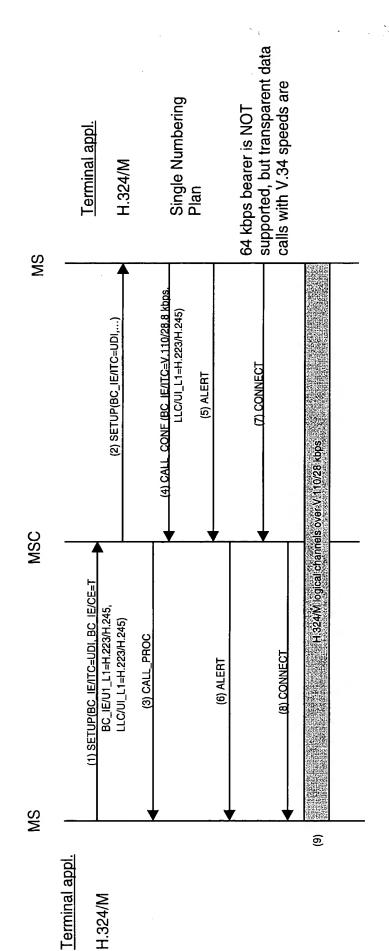


FIGURE 21

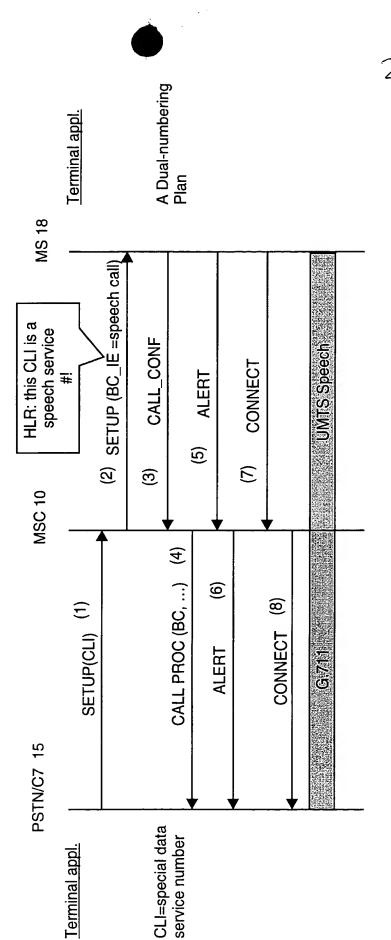


FIGURE 22

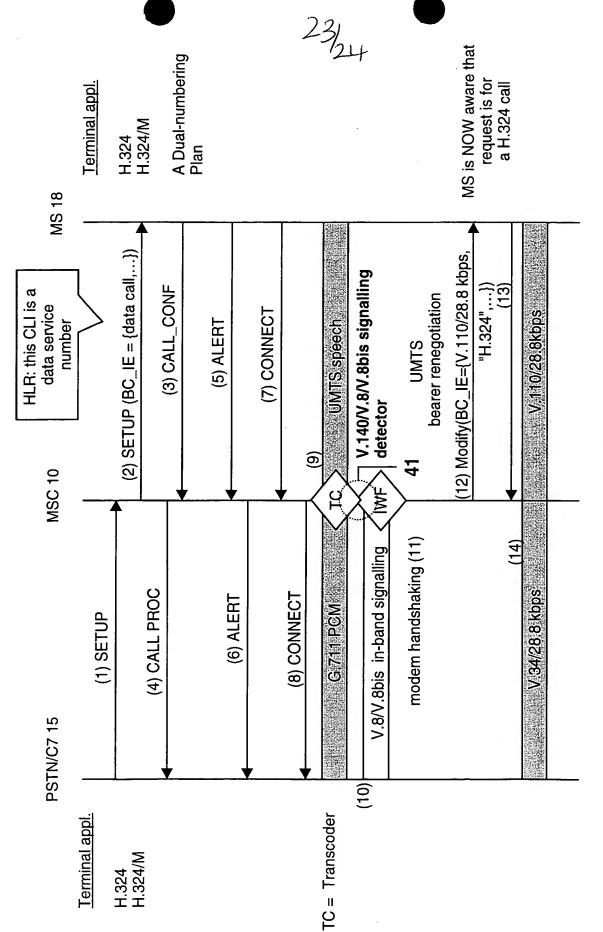


FIGURE 23





#### 24/24

	Ζ'	+/ 4	24	
		٦ [		UMTS
V.8		$\  \ $		Bearer Capability
	Call function category (Octet - "callf0")			Bearer Capability Information Element
100	PSTN Multimedia Terminal (Bits 567)	П		Transfer mode (octet 3)
	,	$\  \ $	0	Circuit mode (Bit 4)
		$\  \ $		
	Modulation modes category (Octet - "modn0")			Bearer Capability Information Element
1	V.34 duplex availability (Bit 6)	П		Duplex mode (octet 4)
	*		1	Full duplex (Bit 4)
ļ				
ļ		П		Bearer Capability Information Element
V.25ter				Synchronous/Asynchronous (octet 6)
1.20101		Н	0	Synchronous (Bit 1)
İ	Modulation control commands		_	
	Modulation reporting control (+MR)			Bearer Capability Information Element
+MCR: V34	+MCR: <carrier></carrier>			Fixed network user rate (octet 6d)
1			00100	28.8 kbps (Bits 54321)
1+MRR: 28800	+MRR: <rate></rate>	П	00100	20.0 kbps (Bits 34021)
		Ш		Bearer Capability Information Element
1				Acceptable channel codings (octet 6e)
V.8bis			1	TCH/F14.4 acceptable (Bit 7)
ļ				Bearer Canability Information Florant
İ	Standard information field - {SPar(1)} coding			Bearer Capability Information Element
	Standard information field – Data {NPar(2)}			Acceptable channel codings (octet 6e)
1	coding (Octet 2) Rec. V.34 duplex mode (Bit 5)		1	TCH/F9.6 acceptable (Bit 5)
1	Nec. V.04 duplex mode (Dit 0)			101111 0.0 0000010000
	Standard information field - {SPar(1)} coding			Bearer Capability Information Element
	Standard information field – H.324 multimedia			Acceptable channel codings (octet 6e)
	terminal {NPar(2)} coding	1		, too be to
1	Video (Bit 1)		1	TCH/F4.8 acceptable (Bit 4)
	,			
	Standard information field - {SPar(1)} coding	i		Bearer Capability Information Element
	Standard information field - H.324 multimedia			Maximum number of traffic channels (octet
	terminal {NPar(2)} coding			6e)
1	Audio (Bit 2)		001	2 TCH (Bits 321)
1			]	Bearer Capability Information Element
		١		Connection element (octet 6c)
		ł	00	Transparent (Bits 76)
ļ				
				Bearer Capability Information Element
				Other modem type (octet 6d)
			10	V.34 (Bits 76)
				High Layer Compatibility
				İ
		Ì		High Layer Compatibility Information Element
				High layer characteristics identification (octet
		-		4)
1			110000	1 PSTN Multimedia Terminal (Bits 7654321)